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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/652,351	08/29/2003	Andrew Dingan Yu	APGT.1.US	1299
7590 08/26/2005			EXAMINER	
Janah & Associates, P.C.			DANG, HOANG C	
Suite 106	,			
650 Delancey Street			ART UNIT	PAPER NUMBER
San Francisco, CA 94107			3672	
			DATE MAILED 00/06/000	_

DATE MAILED: 08/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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η σ	Application No.	Applicant(s)				
	10/652,351	YU, ANDREW DINGAN				
Office Action Summary	Examiner	Art Unit				
	Hoang Dang	3672				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>14 June 2005</u> .						
2a) This action is FINAL . 2b) ⊠ This	2a) This action is FINAL . 2b) ⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) 23-25 is/are withdraw 5) Claim(s) 1-10 is/are allowed. 6) Claim(s) 11, 12 and 16-18 is/are rejected. 7) Claim(s) 13-15 and 19-22 is/are objected to. 8) Claim(s) 23-25 are subject to restriction and/or	n from consideration.					
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>29 August 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) I he oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action of form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152).						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>08/29/2003</u> .	6) Other:	www.i.hhinamon.ft 10-145)				

DETAILED ACTION

Election/Restrictions

- 1. Applicant's election without traverse of Group I, claims 1-22 in the reply filed on 6/14/2005 is acknowledged.
- 2. Claims 23-25 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 6/14/2005.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 17 and 18 rejected under 35 U.S.C. 102(b) as being clearly anticipated by Pevere et al (US 2,857,002) (see figure 1) or Bielstein et al (US 3,386,508) (see figures 1 and 2) or Wright (US 1,520,737) (see figures 1-3) or Goodhart (US 4,646,836) (see figures 2A, 12 and 13).
- 5. Claims 11, 12 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Santourian (US 3,199,587) or Hanson et al (US 4,889,186).

Figure 1 of Santourian and Figure 1 of Hanson et al show injection wells and production wells in a grid pattern as recited. The "one of more permeable zones" called for in the claims do not distinguish from the permeable zone of the hydrocarbon bearing formation between injection wells I1 and I2 and production wells P1 and P3 in Figure 1

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of Santourian or between injection wells I1 and I2 and production wells P1-1 and P2-1 of Hanson et al.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yu et al (US 6,012,520) or Willman (US 4,296,969) in view of Pevere et al '002 or Wright '737 or Goodhart '836.

Yu et al discloses the invention as claimed except for the inclined angle of at least about 5 degrees of the channels. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the channels of Yu et al or Willman extended upwardly from the wellbore at an angle at least 5 degrees as claimed in view of the teaching of Pevere et al (see channels 14 in figure 1) or Wright (see channels 5 in figures 1-2) or Goodhart (see channels 10D in figure 2A) in order to facilitate the movement of fluids therethrough.

Allowable Subject Matter

8. Claims 1-10 are allowed.

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Claims 13-15 and 19-22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoang Dang whose telephone number is 571-272-7028. The examiner can normally be reached on 9:15-5:45 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Bagnell can be reached on 571-272-6999. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Hoang Dang **Primary Examiner**

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